Application: 10/763898

Patent Abstract

```
File 347:JAPIO Dec 1976-2009/Jun(Updated 090923)
         (c) 2009 JPO & JAPIO
File 350:Derwent WPIX 1963-2009/UD=200963
         (c) 2009 Thomson Reuters

Set     Items   Description
S1       3563   (MOUSE? ? OR MICE) (7N) (CURSOR? OR ARROW? OR
INDICATOR? ?)
S2          5   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(10N)  -
              (S1 (7N) (IMAGE OR IMAGES))
S3    1407877   FRAME OR FRAMES OR (DISPLAY OR DISPLAY (3N) UPDATE)
(5N) C-
              YCLE? ?
S4          17   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(30N)  -
              (S1 (7N) (IMAGE OR IMAGES))
S5          10   (S4 AND PY=1963:2003) OR (S4 AND AY=1963:2003 AND
AC=US)
S6         117   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(10W)  -
              S1
S7           1   S6 (30N) S3
S8           1   S6 (50N) S3
S9           1   S8 NOT S4
S10        124   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (5N)
S1
S11          2   S10 (30N) S3
S12          1   S11 NOT (S4 OR S9)
```

Your application

Dialog eLink: Order File History
5/3,K/3 (Item 2 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0014413181 *Drawing available*
WPI Acc no: 2004-603165/200458
XRPX Acc No: N2004-477125
Computer e.g. server computer, display mouse cursor enhancing method, involves obtaining current mouse cursor speed to check whether speed exceeds threshold and generating enhanced mouse cursor if cursor speed exceeds threshold
Patent Assignee: MICROSOFT CORP (MICT)
Inventor: BAUDISCH P M; CUTRELL E B; ROBERTSON G G

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040150619	A1	20040805	US 2003442860	P	20030124	200458	B
			US 2004763898	A	20040123		

Priority Applications (no., kind, date): US 2003442860 P 20030124; US 2004763898 A 20040123

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20040150619	A1	EN	19	13	Related to Provisional US 2003442860

Original Publication Data by AuthorityArgentina**Publication No. ...Original Abstracts:**s path and adding a motion-blur effect along the interpolated path. According to yet **another** embodiment, an enhanced **mouse cursor** is generated **by interpolating** the **mouse cursor**'s path **and a** plurality of **mouse cursor images** are **displayed along the** interpolated path.

12/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347: JAPIO

02465667 **Image available**
DATA PROCESSOR

Pub. No.: 63-082567 [JP 63082567 A]
Published: April 13, 1988 (19880413)
Inventor: SUMITA SHIGEKAZU
Applicant: TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)
Application No.: 61-227152 [JP 86227152]
Filed: September 27, 1986 (19860927)
Journal: Section: P, Section No. 750, Vol. 12, No. 317, Pg. 95, August 29, 1988 (19880829)

ABSTRACT
...is depressed and a coordinate point Ps is designated to the one point of the **frame**. While the button of the **mouse** is depressed, a **cursor** is moved and the **other** point Pe is designated to set an area **frame**. In an area forming property sheet, a part indicated by slashes is selected as an... Di01

Patent Fulltext

```
File 348:EUROPEAN PATENTS 1978-200941
         (c) 2009 European Patent Office
File 349:PCT FULLTEXT 1979-2009/UB=20091001|UT=20090924
         (c) 2009 WIPO/Thomson

Set     Items   Description
S1      12374   (MOUSE? ? OR MICE) (7N) (CURSOR? OR ARROW? OR
INDICATOR? ?)
S2        112   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)  -
              (S1 (7N) (IMAGE OR IMAGES))
S3     474733   FRAME OR FRAMES OR (DISPLAY OR DISPLAY (3N) UPDATE)
(5N) C-
              YCLE? ?
S4          3   S2 (30N) S3
S5          5   S2 (100N) S3
S6          4   (S5 AND PY=1978:2003) OR (S5 AND AY=1978:2003 AND
AC=US)
S7       3116   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(10N)  -
              S1
S8         16   S7 (7N) S3
S9         20   S7 (10N) S3
S10        12   (S9 AND PY=1978:2003) OR (S9 AND AY=1978:2003 AND
AC=US)
S11        12   S10 NOT S5
```

6/3K/1 (Item 1 from file: 348)
DIALOG(R)File 348: EUROPEAN PATENTS

01174674

Method of describing object region data, apparatus for generating object region data, video processing apparatus and video processing method
Verfahren zur Objektgebietdatenbeschreibung, Vorrichtung zur Objektgebietdatenerzeugung, Videoverarbeitungsvorrichtung, und Videoverarbeitungsverfahren
Procede de description de donnees de regions d'objets, dispositif pour generer des donnees de regions d'objets, dispositif de traitement de video, et methode de traitement de video

Patent Assignee:

- **KABUSHIKI KAISHA TOSHIBA**; (213130)
  72, Horikawa-cho, Saiwai-ku; Kawasaki-shi, Kanagawa-ken 210-8572; (JP)
  (Applicant designated States: all)

Inventor:

- **Osamu, Hori, c/o I.P.D. Kabushiki Kaisha Toshiba**
  1-1 Shibaura 1-chome, Minato-ku; Tokyo, 105-8001; (JP)
- **Toshimitsu, Kaneko, c/o I.P.D. Kab. K. Toshiba**
  1-1 Shibaura 1-chome, Minato-ku; Tokyo, 105-8001; (JP)
- **Takeshi, Mita, c/o I.P.D. Kab. K. Toshiba**
  1-1 Shibaura 1-chome, Minato-ku; Tokyo, 105-8001; (JP)
- **Koji, Yamamoto, c/o I.P.D. Kab. K. Toshiba**
  1-1 Shibaura 1-chome, Minato-ku; Tokyo, 105-8001; (JP)

Legal Representative:

- **Granleese, Rhian Jane (92091)**
  Marks & Clerk, 57-60 Lincoln's Inn Fields; London WC2A 3LS; (GB)

	Country	Number	Kind	Date	
Patent	EP	1024667	A2	20000802	(Basic)
	EP	1024667	A3	20030604	
Application	EP	2000300657		20000128	
Priorities	JP	9920387		19990128	
	JP	99187033		19990630	

Designated States:
DE; FR; GB;

Extended Designated States:
AL; LT; LV; MK; RO; SI;

International Patent Class (V7): H04N-007/36**Abstract Word Count:** 117
NOTE: 1
NOTE: Figure number on first page: 1

Legal Status Type	Pub. Date	Kind	Text

Language Publication: English
Procedural: English
Application: English

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS A	(English)	200031	1117
SPEC A	(English)	200031	20916
Total Word Count (Document A) 22033			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 22033			

Specification: ...of the image 2101 so that the image is reproduced at a normal display rate (**frame**/second)(or reproducing speed). In the display screen 2102 shown in FIG. 40B, the **mouse cursor** 2105 exists in the **image** region 2103. Therefore, display rate of the image is lowered or displayed image is frozen.

Another structure may be employed as a substitute for the above-mentioned structure in which image... ...image region. That is, whether or not an object having related information exists in the **frame** is determined (determination is made by comparing the **frame** number and the leading **frame** number/trailing **frame** number with each other). If the object having related information exists in the **frame**, the image display rate is lowered or the displayed

6/3K/4 (Item 3 from file: 349)
DIALOG(R)File 349: PCT FULLTEXT

00230211

COMPUTER GRAPHICS SYSTEM
SYSTEME INFORMATIQUE GRAPHIQUE

Patent Applicant/Patent Assignee:

- **DIGITAL EQUIPMENT CORPORATION**

Inventor(s):

- **MEINERTH Kim**
- **BOUCHARD Joseph**
- **CASE Colyn**
- **CROUSE Robert**
- **FANNING Blaise**
- **FIELDING Kevin**
- **FRANKLIN Chris**
- **GAMACHE Rodney**
- **IRWIN John**
- **KIRK John**
- **KRISHNASWAMI Srinivasan**
- **LORD George**
- **MASUCCI Agnes M**
- **MOEZZI Ali**
- **PAYSON Christopher J**
- **SCOTT George**

	Country	Number	Kind	Date
Patent	WO	9304462	A1	**19930304**
Application	WO	92US7055		19920821
Priorities	US	91355		19910821
	US	91356		19910821
	US	91357		19910821
	US	91358		19910821
	US	91359		19910821
	US	91360		19910821
	US	91361		19910821

	Country	Number	Kind	Date
	US	91362		19910821
	US	91363		19910821

Designated States: (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)
AU, JP, AT, BE, CH, DE, DK, ES, FR, GB,
GR, IE, IT, LU, MC, NL, SE

Language Publication Language: English

Filing Language:

Fulltext word count: 14796

Detailed Description:

...such as directional keys on a keyboard, or by an input
device, such as a "**mouse**". The **cursor** appears as an overlay
over **other images** that are displayed on the screen.

Information regarding the shape and size of the cursor... ...location are typically stored in a dedicated
memory or in a portion of "off-screen" **frame** buffer memory,
that is a portion of the **frame** buffer memory that does not
correspond to a pixel on the screen of the display... ...of a cursor in which data relating to the cursor
is stored in off screen **frame** buffer memory, most clearly seen
in Fig. 3 of Muhich.

A problem with storing cursor...

11/3K/1 (Item 1 from file: 348)
DIALOG(R)File 348: EUROPEAN PATENTS

01694361

A system and method for whiteboard and audio capture
Ein System und Verfahren zur weissen Tafel und Audioerfassung
Un systeme et procede pour la saisie d'audio et de tableau blanc

Patent Assignee:

- **MICROSOFT CORPORATION**; (749866)
  One Microsoft Way; Redmond, WA 98052; (US)
  (Applicant designated States: all)

Inventor:

- **Zhang, Zhengyou**
  10090 177th Ave NE; Redmond, WA 98052; (US)
- **Cutler, Ross**
  16031 277th PL NE; Duvall, WA 98019; (US)
- **He, Li-Wei**
  4221 W. Lake Sammamish Parkway NE; Redmond, WA 98052; (US)
- **Gupta, Anoop**
  19908 NE 129th Street; Woodinville, WA 98072; (US)
- **Liu, Zicheng**
  14743 SE 63rd Street; Bellevue, WA 98006; (US)

Legal Representative:

- **Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)**
  Maximilianstrasse 58; 80538 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1388794	A2	20040211	(Basic)
Application	EP	2003012896		20030606	
Priorities	US	178443		20020619	

Designated States:
AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LI; LU; MC;
NL; PT; RO; SE; SI; SK; TR;

Extended Designated States:
AL; LT; LV; MK;

International Patent Class (V7): G06F-017/30**Abstract Word Count:** 106
NOTE: 1
NOTE: Figure number on first page: 1

Legal Status Type	Pub. Date	Kind	Text

Language Publication: English
Procedural: English
Application: English

Fulltext Availability Available Text	Language	Update	Word Count
CLAIMS A	(English)	200407	2356
SPEC A	(English)	200407	12299
Total Word Count (Document A) 14655			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 14655			

Specification: ...the thumbnails of the key frame images (e.g.,1502) are listed in the key **frame** pane 1504. Selecting one of the thumbnails 1502 with a **mouse cursor** or **other** input device brings the corresponding key **frame** image to the main window 1506 at the left and takes the application to the...

11/3K/5 (Item 1 from file: 349)
DIALOG(R)File 349: PCT FULLTEXT

01190008

SELECTIVELY UPDATING A DISPLAY IN A MULTI-DISPLAY SYSTEM
MISE A JOUR SELECTIVE D'UN AFFICHAGE DANS UN SYSTEME A ECRANS MULTIPLES

Patent Applicant/Patent Assignee:

- **CLEARCUBE TECHNOLOGY INC**
  8834 Capitol of Texas Highway, Austin, TX 78759; US; US(Residence); US(Nationality); (For all designated states except: US)

Patent Applicant/Inventor:

- **THORNTON Barry W**
  5705 Land's End, Austin, TX 78734; US; US(Residence); US(Nationality); (Designated only for: US)

Legal Representative:

- **HOOD Jeffrey C(agent)**
  Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., P.O. Box 398, Austin, TX 78767-0398; US;

	Country	Number	Kind	Date
Patent	WO	2004111830	A1	20041223
Application	WO	2004US18579		20040614
Priorities	US	2003458853		20030611

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)
AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;

VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Language Publication Language: English

Filing Language: English

Fulltext word count: 13653

Detailed Description:

...frame sequencing scheme which addresses the "sticky mouse" issue mentioned above. In this embodiment, the **frame** 702 containing the **mouse/cursor** information may be sent on an every- **other-frame** basis to eliminate the jerkiness of the mouse that would result from a too infrequent... ...display device from the user's perspective. For example, in the case where the active **frame** is the **cursor frame**, the responsiveness of the **mouse** or **other** pointing device may be roughly doubled as compared to the first frame sequence.

In one...

NPL Abstract

```
File   8:Ei Compendex(R) 1884-2009/Sep W4
         (c) 2009 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2009/Sep
         (c) 2009 ProQuest Info&Learning
File  65:Inside Conferences 1993-2009/Oct 08
         (c) 2009 BLDSC all rts. reserv.
File   2:INSPEC 1898-2009/Sep W4
         (c) 2009 The IET
File   6:NTIS 1964-2009/Oct W2
         (c) 2009 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2009/Oct W1
         (c) 2009 INIST/CNRS
File  34:SciSearch(R) Cited Ref Sci 1990-2009/Sep W4
         (c) 2009 The Thomson Corp
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 2006 The Thomson Corp
File  99:Wilson Appl. Sci & Tech Abs 1983-2009/Sep
         (c) 2009 The HW Wilson Co.
File 266:FEDRIP 2009/Aug
        Comp & dist by NTIS, Intl Copyright All Rights Res
File  95:TEME-Technology & Management 1989-2009/Sep W2
         (c) 2009 FIZ TECHNIK
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 Gale/Cengage
File 256:TecTrends 1982-2009/Oct W1
         (c) 2009 Info.Sources Inc. All rights res.
File  56:Computer and Information Systems Abstracts 1966-2009/Sep
         (c) 2009 CSA.
File  60:ANTE: Abstracts in New Tech & Engineer 1966-2009/Sep
         (c) 2009 CSA.

Set     Items   Description
S1       2032   (MOUSE? ? OR MICE) (7N) (CURSOR? OR ARROW? OR
INDICATOR? ?)
S2          4   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)  -
             (S1 (7N) (IMAGE OR IMAGES))
S3     619950   FRAME OR FRAMES OR (DISPLAY OR DISPLAY (3N) UPDATE)
(5N) C-
              YCLE? ?
S4          4   S2 AND PY <= 2003
S5          4   RD S4  (unique items)
S6         75   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(10N)  -
              S1
S7          2   S6 AND S3
S8          2   S7 AND PY <= 2003
S9          2   RD S8  (unique items)
S10         2   S9 NOT S4
S11       169   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(30N)  -
              S1
S12         2   S11 AND S3
S13         0   S12 NOT (S4 OR S10)
```

5/5,K/1 (Item 1 from file: 2)
DIALOG(R)File 2: INSPEC

03354617
Title: Evaluation of a mouse as an educational pointing device
Author(s): Wilton, J.; McLean, R.S.
Author Affiliation: Peel Board of Educ., Mississauga, Ont., Canada
Inclusive Page Numbers: 287-92
Publisher: Nat. Res. Council of Canada, Ottawa, Ont.
Country of Publication: Canada
Publication Date: 1983
Conference Title: Proceedings of the Fourth Canadian Symposium on Instructional Technology
Conference Date: 19-21 Oct. 1983
Conference Location: Winnipeg, Man., Canada
Conference Sponsor: Nat. Res. Council of Canada
ISBN: 0 660 52519 4
Number of Pages: xvi+595
Language: English
Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: A `**mouse**' is a device for positioning a **cursor** or **other images** on a computer screen. It provides easy relative motion on the screen corresponding to hand movements on the work-surface beside the computer. In addition, selection of information on the screen can be signaled by the user by pressing one or more buttons located on the mouse. It thereby provides an effective one-handed input mechanism for manipulation of computer-based displays. With the mouse appearing on several computers and with reduced prices through mass production and new technologies, the mouse should be evaluated for educational use. The mouse has been shown to be the most effective pointing device based on tests with adults. This paper reports current research to determine if the mouse is also an effective device for use across the school age range. Implications for educational software design are discussed (*5 refs.*)
Subfile(s): C (Computing & Control Engineering)
Descriptors: computer graphic equipment; educational aids; educational computing
Identifiers: mouse; educational pointing device; cursor; images; computer screen; computer-based displays; educational use; school age
Classification Codes: C5540 (Terminals and graphic displays); C7810C (Computer-aided instruction)
INSPEC Update Issue: 1985-001

Abstract: A `**mouse**' is a device for positioning a **cursor** or **other images** on a computer screen. It provides easy relative motion on the screen corresponding to hand...
(**19830000**)

10/5,K/1 (Item 1 from file: 2)
DIALOG(R)File 2: INSPEC

07624548
Title: The classroom of the 21st century: the Interactive Learning Wall
Author(s): Eckert, R.R.; Moore, J.A.
Author Affiliation: Dept. of Comput. Sci., State Univ. of New York, Binghamton, NY, USA
Journal: SIGCHI Bulletin , vol.32 , no.2 , pp.33-40
Publisher: ACM
Country of Publication: USA
Publication Date: April 2000
ISSN: 0736-6906
SICI: 0736-6906(200004)32:2L.33:C2CI;1-G
CODEN: SGBUD4
Language: English
Document Type: Journal Paper (JP)
Treatment: Practical (P)
Abstract: The Interactive Learning Wall is a Windows/PC-based virtual blackboard system that can be controlled remotely by a classroom instructor and/or students. A laser pointer used by the instructor emulates mouse actions on a computer projection screen. An inexpensive video camera sends each projected **frame** to a video capture card in the computer; our software detects the bright laser spot, moves a screen **cursor**, and performs **other mouse** operations according to user actions. The system frees the instructor to move about the classroom as he/she controls the presentation. Other software allows students, from their laptop computers, to request control of the main computer's mouse and keyboard over a local network. This facilitates student interaction with the main computer's screen to perform tasks like: go to specific parts of the presentation; enter text; annotate diagrams; run programs. Both systems can help increase interactivity between instructor and students in a large classroom environment. Technical details are given (*2 refs.*)
Subfile(s): C (Computing & Control Engineering)
Descriptors: computer aided instruction; computer displays; microcomputer applications; wireless LAN
Identifiers: Interactive Learning Wall; Windows/PC-based virtual blackboard system; laser pointer; remote control; mouse action emulation; computer projection screen; video camera; video capture card; software; bright laser spot detection; screen cursor movement; laptop computers; local network; student interaction; classroom environment
Classification Codes: C7810C (Computer-aided instruction); C5620L (Local area networks); C5540D (Computer displays)
INSPEC Update Issue: 2000-025

Abstract: ...emulates mouse actions on a computer projection screen. An inexpensive

video camera sends each projected **frame** to a video capture card in the computer; our software detects the bright laser spot, moves a screen **cursor**, and performs **other mouse** operations according to user actions. The system frees the instructor to move about the classroom... (**20000400**)

10/5,K/2 (Item 1 from file: 34)
DIALOG(R)File 34: SciSearch(R) Cited Ref Sci

04470539 **Genuine Article#:** TF634 **Number of References:** 37
Title: LEARNING A NEW VISUOMOTOR TRANSFORMATION - ERROR-CORRECTION AND GENERALIZATION
Author: ROBYBRAMI A; BURNOD Y
Corporate Source: UPMC,CREARE,INSERM,9 QUAI ST BERNARD/F-75005 PARIS//FRANCE/; CREARE,CJF 933,INSERM/F-75252 PARIS 05//FRANCE/
Journal: COGNITIVE BRAIN RESEARCH , **1995** , V 2 , N4 (OCT) , P 229-242
ISSN: 0926-6410
Language: ENGLISH **Document Type:** ARTICLE
Geographic Location: FRANCE
Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences
Journal Subject Category: NEUROSCIENCES; COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Abstract: The use of an aiming tool requires learning a new transformation between visual and proprioceptive information and motor command. We have examined this question by quantifying the kinematics of the movement during the transitory phase of adaptation to a rotational bias (60 degrees counterclockwise, then clockwise) **added** to a standard **mouse- cursor** device in the plane of the screen. Control-aiming movements were almost linear with a bell-shaped velocity profile. The bias induced an equivalent initial directional error which was usually corrected within 20 trials. The learning trajectories were combinations of spirals and fast or slow straight movements. The posture of the hand was slightly (less than 10 degrees) modified by the bias. These features suggest three corrective processes: on-line continuous correction based on evaluation of the relative cursor-to-target position, discrete correction based on assessment of the discrepancy angle between the cursor-to-target direction and the effective cursor direction, and memorization of trial-to-trial correction. These results are interpreted in the light of neurophysiological data and neural net modeling, which suggest that the visuomotor transformation performed by cortical areas for reaching is effected by projecting the visual information on a reference **frame** that rotates with the arm. The initial directional error reappeared when the direction of the target was changed and increased with degree of change. The limited generalization suggests that bias correction is stored in relation to the coding of the target direction and that movement towards a new direction is computed as a projection of the previously learned bias on the new visual direction.
Descriptors: SCIAuthor Keywords: LEARNING ; ADAPTATION ; MOTOR CONTROL ; VISUOMOTOR TRANSFORMATION ; VISUOMOTOR DISCREPANCY ; TRAJECTORY ; COMPUTER MOUSE
Identifiers: KeyWords Plus: PARIETAL ASSOCIATION CORTEX; NEURAL NETWORK MODEL; ARM MOVEMENTS; TRAJECTORY FORMATION; VISUAL TARGETS; ORGANIZATION; MONKEY; SPACE; COORDINATION;

CONNECTIONS
Research Fronts: 93-0780 001 (MODEL FOR REACHING CONTROL; SPEECH MOVEMENT VELOCITY PROFILES; MULTIJOINT ARM; TRAJECTORY FORMATION; MOTOR BEHAVIOR; HUMAN MUSCLE COORDINATION)
93-5147 001 (HRP-FILLED BASKET CELL AXONS IN THE CATS CEREBELLUM; LONG-TERM SYNAPTIC DEPRESSION; NEURAL NETWORKS)
93-5487 001 (REACHING MOVEMENTS; REGULATION OF VISUALLY GUIDED AIMING; IMPULSE VARIABILITY; MANUAL ASYMMETRIES; TEMPORAL INTERACTION; HUMAN-COMPUTER INTERFACE)
Cited References:

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BLATT GJ, 1990, V299, P421, J COMP NEUROL
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BULLOCK D, 1988, V95, P49, PSYCHOL REV
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CAMINITI R, IN PRESS CEREBRAL CO
CAMINITI R, 1991, V11, P1182, J NEUROSCI
COLBY CL, 1988, V269, P392, J COMP NEUROL
COVEY E, 1982, V8, P681, SOC NEUR ABSTR
FITTS PM, 1954, V47, P381, J EXP PSYCHOL
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FROLOV AA, 1993, V2, P141, NEURAL NETWORK WORLD
GOTTLIEB GL, 1993, V25, P153, J MOTOR BEHAV
GUIGON E, 1995, V5, P135, CEREB CORTEX
HAY L, 1984, P79, PSYCHOL HUMAN MOVEME
ITO M, 1984, CEREBELLUM NEURAL CO
JAKOBSON LS, 1989, V78, P575, EXP BRAIN RES
JEANNEROD M, 1988, NEURAL BEHAVIOURAL O
JOHNSON PB, 1992, P199, CONTROL ARM MOVEMENT
JOHNSON PB, 1993, V97, P361, EXP BRAIN RES
JOHNSON PB, IN PRESS CEREBRAL CO
KAWATO M, 1990, V62, P275, BIOL CYBERN
LACQUANITI F, 1982, V252, P394, BRAIN RES
LACQUANITI F, IN PRESS CEREBRAL CO
MORASSO P, 1981, V42, P222, EXP BRAIN RES
MOTTER BC, 1981, V1, P3, J NEUROSCI
MOUNTCASTLE VB, 1975, V38, P871, J NEUROPHYSIOL
PAILLARD J, 1991, P163, BRAIN SPACE
PANDYA DN, 1982, V204, P196, J COMP NEUROL
ROBYBRAMI A, 1992, P1656, 14TH P ANN INT C IEE
ROSSETTI Y, 1993, V54, P355, PERCEPT PSYCHOPHYS
SAKATA H, 1980, V43, P1654, J NEUROPHYSIOL
SAKATA H, 1985, V25, P453, VISION RES
SOECHTING JF, 1992, V15, P167, ANN REV NEUROSCI
VIVIANI P, 1980, P525, TUTORIALS MOTOR BEHA

WELCH RB, 1986, V1, HDB PERCEPTION HUMAN
Journal: , **1995**
Abstract: ...during the transitory phase of adaptation to a rotational bias (60 degrees counterclockwise, then clockwise) **added** to a standard **mouse-cursor** device in the plane of the screen. Control-aiming movements were almost linear with a... ...by cortical areas for reaching is effected by projecting the visual information on a reference **frame** that rotates with the arm. The initial directional error reappeared when the direction of the...
Descriptors:

NPL Fulltext

```
File 275:Gale Group Computer DB(TM) 1983-2009/Sep 08
         (c) 2009 Gale/Cengage
File  47:Gale Group Magazine DB(TM) 1959-2009/Sep 24
         (c) 2009 Gale/Cengage
File 621:Gale Group New Prod.Annou.(R) 1985-2009/Aug 31
         (c) 2009 Gale/Cengage
File 636:Gale Group Newsletter DB(TM) 1987-2009/Sep 14
         (c) 2009 Gale/Cengage
File 148:Gale Group Trade & Industry DB 1976-2009/Sep 21
         (c) 2009 Gale/Cengage
File 624:McGraw-Hill Publications 1985-2009/Oct 08
         (c) 2009 McGraw-Hill Co. Inc
File  98:General Sci Abs 1984-2009/Oct
         (c) 2009 The HW Wilson Co.
File 553:Wilson Bus. Abs. 1982-2009/Oct
         (c) 2009 The HW Wilson Co
File  15:ABI/Inform(R) 1971-2009/Oct 07
         (c) 2009 ProQuest Info&Learning
File 635:Business Dateline(R) 1985-2009/Oct 08
         (c) 2009 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2009/Oct 08
         (c) 2009 Gale/Cengage
File 610:Business Wire 1999-2009/Oct 08
         (c) 2009 Business Wire.
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 647:UBM Computer Fulltext 1988-2009/Oct W1
         (c) 2009 UBM, LLC
File 674:Computer News Fulltext 1989-2006/Sep W1
         (c) 2006 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2009/Oct 07
         (c) 2009 Dialog
File 369:New Scientist 1994-2009/Sep W4
         (c) 2009 Reed Business Information Ltd.
File 613:PR Newswire 1999-2009/Oct 08
         (c) 2009 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File  16:Gale Group PROMT(R) 1990-2009/Sep 14
         (c) 2009 Gale/Cengage
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 484:Periodical Abs Plustext 1986-2009/Oct 07
         (c) 2009 ProQuest
File 634:San Jose Mercury  Jun 1985-2009/Sep 26
         (c) 2009 San Jose Mercury News

Set     Items   Description
S1      10131   (MOUSE? ? OR MICE) (7N) (CURSOR? OR ARROW? OR
INDICATOR? ?)
S2         34   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)   -
```

```
            (S1 (7N) (IMAGE OR IMAGES))
S3    1096434   FRAME OR FRAMES OR (DISPLAY OR DISPLAY (3N) UPDATE)
(5N) C-
            YCLE? ?
S4          28   S2 AND PY <= 2003
S5          23   RD S4  (unique items)
S6        1572   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)  -
            S1
S7          21   S6 (30N) S3
S8          20   S7 NOT S4
S9          17   S8 AND PY <= 2003
S10         10   RD S9  (unique items)
S11   199733   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)  -
            (CURSOR? OR ARROW? OR INDICATOR? ?)
S12    74468   (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (7W)
(-
            CURSOR? OR ARROW? OR INDICATOR? ?)
S13         32   S12 (5N) S3
S14         32   S13 NOT (S7 OR S9)
S15         25   S14 AND PY <= 2003
S16         16   RD S15  (unique items)
```

5/5,K/11 (Item 1 from file: 15)
DIALOG(R)File 15: ABI/Inform(R)

00980345 96-29738
****USE FORMAT 7 OR 9 FOR FULL TEXT****
Building future medical education environments over ATM networks

Schnepf, James A; Du, David H C; Ritenour, E Russell; Fahrmann, Aaron J
Communications of the ACM v38n2 pp: 54-69
Feb 1995
ISSN: 0001-0782 **Journal Code:** ACM
Document Type: Journal article **Language:** English **Length:** 16 Pages
Special Feature: Charts Diagrams References
Word Count: 8108

Abstract:
The educational requirements of society are changing. Education must be a lifelong process to allow people, particularly those in technical disciplines, to keep up with their changing fields. This is especially true with medical education. It has been difficult to provide this training to health care practitioners who are spread over a wide geographical area and who cannot travel away from their communities for lengthy training sessions. To meet the needs of this expanding base of students, it is necessary to go beyond the traditional campus setting and bring education to students. The last decade has seen radical improvements in communications technology, brought about by advances in optical devices and transmission systems. Asynchronous transfer mode networks operating at gigabits-per-second speed are becoming a reality. At the same time, more powerful processors, special hardware chips, and the development of high-capacity storage devices have made multimedia applications an emergent field. These technical advances give the opportunity to provide education and training in ways not possible just a few short years ago. Details are discussed.

Descriptors: Asynchronous transfer mode; Communications networks; Technological change; Applications; Education; CAI; Medical personnel
Classification Codes: 6200 (CN=Training & development); 5250 (CN=Telecommunications systems); 8320 (CN=Health care industry)
Text:

...allow the instructor to view the images projected and make adjustments
as required. Additionally, two **mice** control **cursors** on the
two **image** screens and can be used as pointing devices to highlight
points of interest on the images. Two **additional** monitors provide
the instructor with a view of the remote-site students. During class
sessions...

5/5,K/21 (Item 1 from file: 647)
DIALOG(R)File 647: UBM Computer Fulltext

01061410 **CMP Accession Number:** WIN1995090150098
Key Tronic KB101 Plus-C - The Key(board) to Windows 95
(In Brief)
James E. Powell
WINDOWS MAGAZINE **, 1995** , n 61 , PG170
Publication Date: 950901
Journal Code: WIN **Language:** English
Record Type: Fulltext
Section Heading: Winlab First Impressions
Word Count: 382
Text:

Key Tronic has designed a new 101-key-style keyboard with three extra keys
that Windows 3.1 and Windows 95 users will appreciate. Key Tronic shortened the spacebar's length on the KB101 Plus-C keyboard- it's still
plenty long enough-and **added** a button on each side with the Windows logo. There's also **another** key on the right with the **image** of
a **mouse cursor** pointing to a menu list. After running the Microsoft IntelliType software (with Windows 3.1 only), pressing the Windows key brings up a replacement Task Manager, which lets you assign
default actions to the function keys, switch tasks and arrange windows.
Surprisingly, pressing the mouse-pointer button has no effect. The IntelliType software also lets you control keyboard options (the same as
you'll find in Control Panel) and gives you the ability to snap the cursor
to the default button. Microsoft Natural Keyboard users are already familiar with those features.

, 1995 , v
Text:
...s length on the KB101 Plus-C keyboard- it's still plenty long enough-and
added a button on each side with the Windows logo. There's also **another** key on the right with the **image** of a **mouse**
cursor pointing to a menu list. After running the Microsoft IntelliType software (with Windows 3.1...

02702984 **Supplier Number:** 66432400 **(THIS IS THE FULLTEXT)**
MultiView Group Announces MultiView Catalyst Version 6.0; Offers Rapid, Point-and-Click Internet Access To Legacy UNIX Applications.

Business Wire , p 2064
Oct 30 , 2000
Language: English **Record Type:** Fulltext
Document Type: Newswire ; Trade
Word Count: 1057
Text:
Business Editors/High-Tech Writers
SCOTTS VALLEY, Calif.--(BUSINESS WIRE)--Oct. 30, 2000
MultiView Group, part of SurfControl, Inc., today announced the availability of its Web-to-host connectivity software, MultiView Catalyst version 6.0. Giving customers point-and-click Web access to their legacy UNIX applications in an "Internet instant," MultiView Catalyst is the fastest and easiest way to face-lift and Web-enable UNIX applications. New features to MultiView Catalyst version 6.0 include complete printing support, end-to-end security, a Web page design wizard and enhanced monitoring and session connectivity capabilities.
According to market research firm Meta Group, by 2004 more than 90 percent of legacy data will be accessible via Internet, intranet and extranet technologies. Furthermore, by 2003 UNIX servers are expected to capture $37 billion in end user spending, according to International Data Corp. (IDC). These statistics represent the widespread effort among IT organizations to move legacy UNIX applications to the Web.
Specifically designed for the UNIX environment, MultiView Catalyst offers UNIX customers the most cost-effective and efficient solution for face-lifting and connecting UNIX applications to the Web. In addition, MultiView Catalyst provides monitoring and usage abilities for assisting application service providers (ASPs) who offer outsourced Web-to-host connectivity services.
"MultiView Catalyst 6.0 is a result of direct feedback from corporate and ASP customers who are desiring a more cost-effective solution for connecting legacy UNIX applications to the Web," said Andreas Mueller, vice president of marketing for MultiView Group. "For the first time, customers can -- without delay -- face-lift and deliver UNIX applications

to any Web browser."

"MultiView Catalyst Version 6.0 clearly offers the most functionality and ease-of-use of any software solution for connecting UNIX applications to the Web," said systems architect Donald Treon with Prophet 21, a provider of distribution software for wholesale distributors on SQL Server, UNIX, and AS/400 platforms. "With the large numbers of users accessing UNIX boxes via the Web, a dire need exists for a UNIX Web-to-host solution. Yet, almost all of the Web-to-host solutions out there are specifically designed for the IBM market space and lack UNIX focus. None of these products come close to offering the capabilities of MultiView Catalyst for connecting UNIX applications to the Web."

"Market forces are requiring software vendors to offer more effective ways to manage and administer enterprise software performance," said Barton Taylor, partner and research director for Giotto Perspectives of Watertown, Mass. "The release of MultiView Catalyst version 6.0 demonstrates that presentation-layer middleware has grown in sophistication to reflect a transition to `service-centric' frameworks. By adding features such as performance monitoring, licensing and systems management -- with security -- the MultiView Group has created a centralized way to meet the growing demands for performance management capabilities."

New Capabilities for MultiView Catalyst Version 6.0

-- Complete Printing Support -- MultiView Catalyst features a unique range of

printing capabilities for both internal and remote users. In addition to pr int screen and auxiliary or pass-through printing, users can also perform

background printing via completely secure connections (SSH and SSL) with LP

printing. Bandwidth is maximized, since print jobs are handled in the same session and the print priority can be set.

-- Session Resume -- A new Session Resume feature assures solid remote

connections and adds network stability since client connections or print jo bs can be quickly resumed with one click of the mouse.

-- Enhanced Monitoring Capabilities -- System administrators and ASPs
can

effortlessly monitor software usage and user workloads from a browser.
This

means that from any location, administrators can quickly resolve
support is
sues
     or disconnect sessions, when necessary.

-- Flexible Enterprise Licensing -- Now it is even easier to purchase
and

deploy the MultiView product line since customers can purchase one set
of

licenses and use any combination of products, such as MultiView
Catalyst,

MultiView 2000 and MultiView 2000 Server Edition. Installation for PC-
level
,

thin client and Web-based users can be centrally controlled via the
MultiVi
ew

License Manager and shared product license keys provide load balancing,
ser
ver
     resilience and backup, and virtually unlimited scalability.

-- Enhanced Security -- With Secure Shell (SSH v1) support, all data
exchan
ges

between the terminal emulation client and the remote UNIX server are
fully

encrypted and secure. MultiView Catalyst provides a complete security
wrapp
er

that protects data traffic from the Web Client to the Catalyst Server
(SSL)
 and
     from the Catalyst Server to the UNIX host (SSH).

-- Smart Cursor Improved Mouse Navigation -- Better user integration
with t
he

UNIX environment now allows the user more **mouse**
flexibility when face-lifting
UNIX applications. Smart **Cursor** provides **added**
productivity since edit fields
and **other** areas on the screen can be selected with the
mouse on-the-fly instead
of with **arrow** keys or tabs.

-- Web Page Wizard -- Since systems administrators are not necessarily
Web

designers, a new Web Page Wizard makes it easy for anyone to generate a
Web
frame
on the fly. The Web Page Wizard automates the Web design process,

providing the fastest way to set up display parameters and turn boring
UNIX
screens into dynamic Web pages.
Pricing, Support & Availability
MultiView Catalyst Version 6.0 is now available for purchase
with
pricing for 10 concurrent users starting at $2,295. There is no
additional
charge for the host software on the server and the client software may
be
distributed freely. For more information, customers may visit MultiView
Group's Web site at http://www.multiviewgroup.com or call 800/572-8649
or
831/431-1600.
About SurfControl (formerly JSB)
SurfControl plc (EASDAQ:SRFC/London:SRF), is a world leader in
Responsible Internet Usage offering a complete line of Internet
filtering
solutions for use in the home, education and the corporation. The
SurfControl family of products employs expert filtering, Pass-Through,
and
Pass-By technologies to create a productive Internet environment in the
workplace and a child safe room on the Internet at home and at school.
MultiView Group, part of SurfControl, focuses on web-to-host, thin
client
and PC connectivity in the UNIX market.
SurfControl works with a variety of partners such as AltaVista,
CheckPoint Software (Nasdaq:CHKP), Cisco Systems (Nasdaq:CSCO), Google,
Hewlett Packard (Nasdaq:HWP), IBM (Nasdaq:IBM), ICSA, Microsoft's Web
TV
(MSFT), Netscape (Nasdaq:NCSP), WorldGate (Nasdaq:WGAT), and YAHOO!
(Nasdaq:YHOO).
SurfControl employs over 300 people worldwide and has offices in
the
U.S. in Calif. and Mass.; in the U.K. in Manchester and London;
Rotterdam,
Holland; Vienna, Austria; Frankfurt, Germany.
Note to editors: All brands or trademarks are the property of
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respective owners.

Publisher Name: Business Wire
Company Names: *SurfControl Inc.
Geographic Names: *1USA (United States)
Product Names: *3661251 (Communications Servers)
Industry Names: BUS (Business, General); BUSN (Any type of business)
SIC Codes: 3661 (Telephone and telegraph apparatus)
NAICS Codes: 33421 (Telephone Apparatus Manufacturing)

-

...Improved Mouse Navigation -- Better user integration with the
UNIX environment now allows the user more **mouse**
flexibility when face-lifting
UNIX applications. Smart **Cursor** provides **added**
productivity since edit fields
and **other** areas on the screen can be selected with the
mouse on-the-fly instead
of with **arrow** keys or tabs.

-- Web Page Wizard -- Since systems administrators are not necessarily
Web

designers, a new Web Page Wizard makes it easy for anyone to generate a
Web
frame
on the fly. The Web Page Wizard automates the Web design process,
providing the fastest...

20001030

04436297 **Supplier Number:** 99376356 (USE FORMAT 7 OR 9 FOR FULLTEXT
)

Computer aided assembly robustness evaluation

Soderberg, Rikard; Lindkvist, Lars

Journal of Engineering Design (JOED) , v10 n2 , p 165-181 **, p.** 17
Jun 1999
ISSN: 0954-4828 **Journal Code:** JOED
Document Type: Feature
Language: English **Record Type:** Fulltext; Abstract
Word Count: 5192

Abstract:
This paper presents a methodology and a software that allows assemblies
to
be evaluated with respect to robustness and geometrical stability. The
assembly robustness evaluation aims at detecting design and assembly
solutions that are sensitive to variation and may cause problems later
during production.

Descriptors: Design engineering; Computer aided design; CAD; Assembly lines
Special Features: Illustration Photograph References
1999

TEXT:
...a part, with respect to which all other features are positioned and
to
which all **other** features and tolerances refer.
The (**arrow** up)P-**frame**' (the master location system)
constitutes the positioning scheme for the part, positioning the part
in...

...scheme which positions the part in its final position may be shifted
without interfering with **other** features of the part. If the (
arrow up)P-**frame** is used for both positioning and as a
reference (local coordinate system) for other features...to 'ground' by
their own (arrow up)P-frames, and there is no influence from **other**
parts or (**arrow** up)P-**frames**. The position of each part is
controlled only by its corresponding (arrow up)P-frame...
...last part in the chain, part D, is controlled by its own (arrow
up)P-
frame and every **other** (**arrow** up)P-**frame** in the
assembly. This case represents a 'decoupled' assembly solution,
represented
by a triangular design...